AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An operational amplifier arrangement comprising a first arrangement input terminal to which an input signal voltage-is supplied and a first arrangement output terminal, said operational amplifier arrangement further comprising:

a non-linear amplifier having a pair of input terminals, one of which is coupled to said first arrangement input terminal, said non-linear amplifier further comprising an output terminal,

a linear amplifier having a pair of input terminals, one of which is coupled to said first arrangement input terminal, said linear amplifier further comprising an output terminal,

whereby the output terminal of said non-linear amplifier is coupled to the output terminal of said linear amplifier via a first series impedance,

whereby the output terminal of said linear amplifier is coupled to the first arrangement output terminal via a first terminating impedance,

and whereby the <u>operational amplifier</u> arrangement further comprises a first active back termination arrangement coupled between the first arrangement output terminal and either one of said pair of input terminals of said linear amplifier.

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- 2. (Currently Amended) The operational amplifier arrangement according to claim 1, wherein said non-linear amplifier receives a first supply voltage from a first power supply, while said linear amplifier receives a second supply voltage from a second power supply, wherein the second supply voltage is greater than which exceeds the first supply voltage of said first power supply.
- 3. (Previously Presented) The operational amplifier arrangement according to claim 1, wherein operational amplifier arrangement further comprises a second arrangement input terminal and a second arrangement output terminal, said input signal being a differential input signal applied between said first arrangement input terminal and said second arrangement input terminal, said non-linear amplifier comprising a second output terminal coupled to said second arrangement output terminal via a second series impedance, said linear amplifier comprising a second output terminal coupled to the second arrangement output terminal via a second terminating impedance, said operational amplifier arrangement further comprising a second active back termination arrangement coupled between said second arrangement output terminal and the other one of said pair of input terminals of said linear amplifier.

- 4. (*Previously Presented*) The operational amplifier arrangement according to claim 3, wherein said first series impedance is substantially equal to said second series impedance, said first terminating impedance is substantially equal to said second terminating impedance and said first active back termination arrangement is substantially equal to said second active back termination arrangement.
- 5. (Currently Amended) An The operational amplifier arrangement comprising a pair of arrangement input terminals and a pair of arrangement output terminals, said operational amplifier arrangement further comprising;

first and second non-linear amplifiers coupled between said arrangement input terminals and said arrangement output terminalsterminal,

first and second linear amplifiers coupled between said arrangement input terminals and said arrangement output terminals,

whereby respective output terminals of said non-linear amplifiers are coupled to respective output terminals of said linear amplifiers via respective series impedances,

whereby respective output terminals of said linear amplifiers are coupled to respective arrangement output terminals via respective terminating impedances,

and whereby the <u>operational amplifier</u> arrangement further includes a <u>first</u> pair of active back termination arrangements coupled between respective arrangement output terminals and either one of said pair of input terminals of either pair of linear amplifiers.

6. (Currently Amended) The operational amplifier arrangement according to claim 5, wherein:

said first and second non-linear amplifiers receive a first power supply voltage, and said first and second linear amplifiers receive a second power supply voltage, wherein the second power supply voltage is greater than the which exceeds said first power supply voltage.

- 7. (Currently Amended) The operational amplifier according to claim 5, wherein said respective series impedances have substantially equal resistance values, said first and said second non-linear amplifiers are substantially identical, said first and said second linear amplifiers are substantially identical, said respective terminating impedances are substantially identical, and said active back termination arrangements of said <u>first</u> pair of active back termination arrangements are substantially identical.
- 8. (*Previously Presented*) The operational amplifier arrangement according to claim 5, wherein said operational amplifier arrangement comprises a second pair of active back terminating arrangements coupled between the respective output terminals of said first and said second linear amplifiers and either input terminals of either said first or said second linear amplifiers.

- 9. (*Previously Presented*) The operational amplifier arrangement according to claim 8, wherein the active back terminating arrangements of said second pair of active back terminating arrangements are substantially identical.
- 10. (Currently Amended) The operational amplifier arrangement according to claim 1, wherein the gain of a first branch between the one of said-arrangement input terminal terminals and the arrangement output terminal that comprises coupled in series with one of said linear amplifier and amplifiers, said first terminating impedance to one of said arrangement output terminals equals the gain of a second parallel branch between the said one arrangement input terminal and the arrangement output terminal that comprises in series with one of said non-linear amplifiers, said first series impedance and said first terminating impedance to said one of said arrangement output terminals.
- 11. (Currently Amended) The operational amplifier arrangement according to claim 10, wherein an the output impedance between one of said arrangement output terminals and one of said arrangement input terminals via said branch equals an the output impedance between said one arrangement output terminal and said one arrangement input terminal via said parallel branch.

- 12. (Currently Amended) The operational amplifier arrangement according to claim 5, wherein the sum of said respective series <u>impedance</u> and said respective terminating <u>impedance</u> in series with said respective series <u>impedances impedance</u> is equal to <u>a</u> the-series load impedance.
- 13. (*Currently Amended*) The operational amplifier arrangement according to claim 8, wherein the sum of said respective series <u>impedance</u> and said respective terminating <u>impedance</u> in series with said respective series <u>impedances impedance</u> is lower than a the series load impedance.